IS 5000-OD15 (1973): Dimensions of Semiconductor Devices, Device Outline OD15 [LITD 5: Semiconductor and Other Electronic Components and Devices]

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UDC 621·382·2/·3 : 389·63

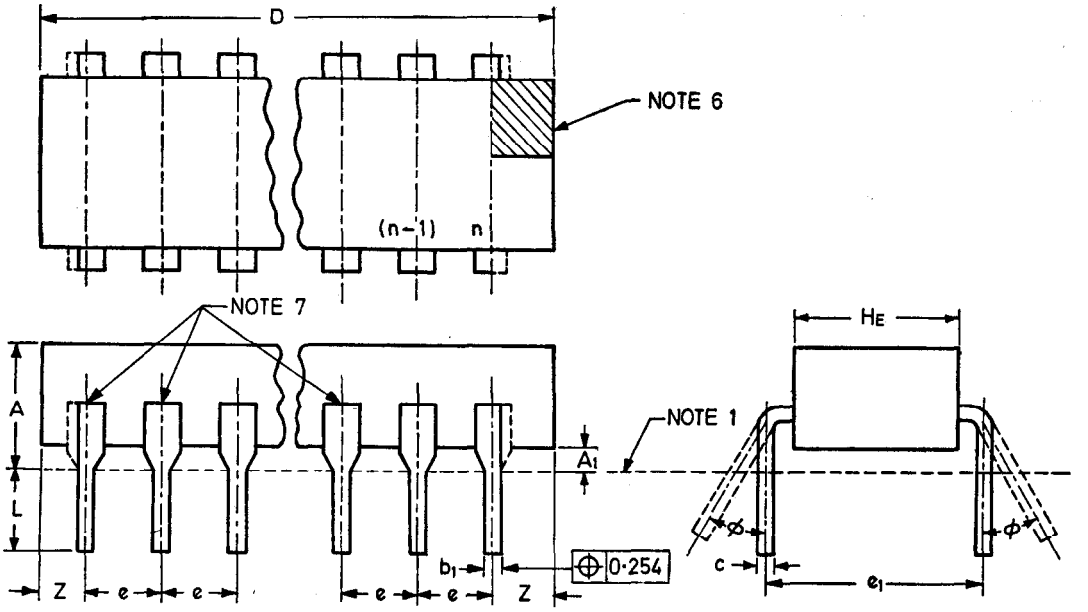
Indian Standard

(Reaffirmed 2002)

DIMENSIONS OF SEMICONDUCTOR DEVICES DEVICE OUTLINE OD15

1. Dimensions — The dimensions of 8, 14 and 16 lead dual-in-line package outlines for integrated circuits are given below.

Note — This drawing has been prepared in accordance with IS : 5001 (Part I)-1969 ' Guide for the preparation of drawings of semiconductor devices and integrated circuits: Part I Semiconductor devices ' and IS : 5001 (Part II)-1973 ' Guide for the preparation of drawings of semiconductor devices and integrated circuits: Part II Integrated circuits '.



Reference	Millimetres			Degrees	Notes
	Min	*Nom*	*Max*		
A	—	—	5·1		
A_1	0·51	—	—		1
L	2·54	—	5·08		9
H_E	—	—	8·3		
b_1	0·38	—	0·59		2
c	0·20	—	0·36		
e	—	2·54(*)	—		2, 8
e_1	—	7·62(*)	—		3
ϕ	—	—	—	0 to 15	

* Means true geometrical position.

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Reference	Type A	Type B	Type C	Notes
n	14	16	16	4
Z (*Max*)	2·54 mm	1·27 mm	2·54 mm	5
D (*Max*)	20·32 mm	20·32 mm	22·86 mm	5

Note 1 — *Seating Plane* — Provision is made for a shoulder or other feature on the terminal to ensure that a clearance A_1 *Min* is maintained when the device is inserted into holes not larger than the recommended maximum diameter of 0·8 mm in a printed circuit board.

Note 2 — The maximum material condition applies to the positional tolerance of the terminals.

Note 3 — Dimension e_1 refers to a zero value of angle ϕ.

Note 4 — *n* refers to the total number of terminal positions.

Note 5 — The overhang will be less than half pitch (or one pitch as the case may be).

Note 6 — Index mark indicates terminal n° 1.

Note 7 — The contour of the terminals above the seating plane is optional (typical alternative terminal configurations are shown in the figure), but adequate clearance is made for conductors on the printed circuit board to pass between the terminals.

Note 8 — The value of dimensions *L* should be targeted on 3·1 mm to 3·9 mm at least for future designs.

Note 9 — Terminal spacing tolerances are not cumulative.

2. Rules for Coding — *See* **8.1** of IS : 5001 (Part I)-1969.

3. Equivalent Designation Code Followed by Other Countries and Organizations

Country or Organization	Designation Code		
	Type A	Type B	Type C
India	OD 15A	OD 15B	OD 15C
IEC	PA 49B	PA 49C	PA 49E
UK	SO-87B	SO-87C	SO-87E
USA	MO-001 AB	—	—
France	F-105	F-117A	F-117
Germany	20 A14	—	20 A16
Netherlands	NT 27	—	NT 38

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